Project Introduction

The proposed effort will combine a low cost physical modeling approach with inductive, data-centered modeling in an aerosopace relevant context to demonstrate effective, low cost data mining. In particular Phase I will evaluate various hybrid architecture concepts on the basis of false positive and fasle negative rates. The approach will use domain decompostiition to partition the physical platform under consideration into regimes appropriate for either model based or inductive based apoproaches.

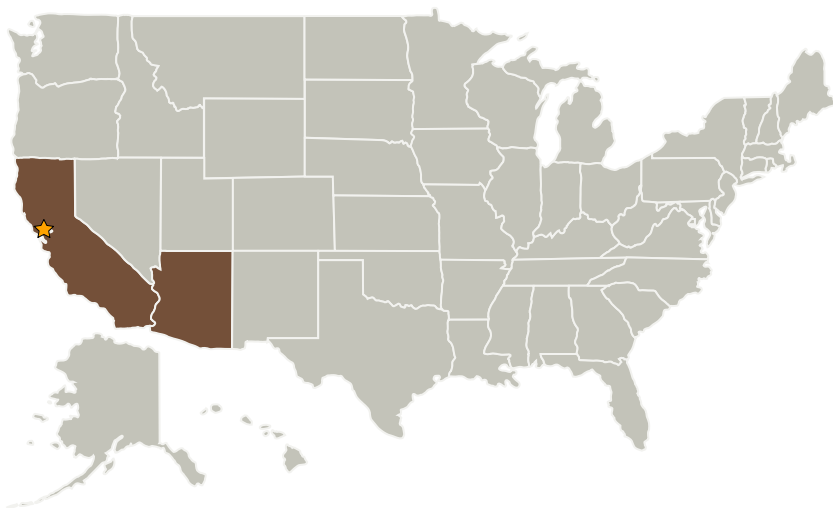## Primary U.S. Work Locations and Key Partners

A Low Cost, Hybrid Approach to Data Mining, Phase I

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Ames Research Center (ARC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Organizations Performing Work	Role	Type	Location
⭐Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
Scientific Monitoring, Inc.	Supporting Organization	Industry Minority-Owned Business	Scottsdale, Arizona

Primary U.S. Work Locations	
Arizona	California

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Asif Khalak

Technology Areas

Primary:

- TX01 Propulsion Systems
  └ TX01.2 Electric Space Propulsion
    └ TX01.2.3 Electromagnetic